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NEW BOOKS.

A Treatise on Differential Geometry. By LUTHER P. EISENHART. Boston: Ginn and Company. Pp. 474. $4.50.

It is the purpose of this book to introduce the student to the methods of differential geometry and to the theory of curves and surfaces developed thereby, to such an extent that he will be prepared to read the more extensive foreign treatises and journal articles. The reader is supposed to possess a knowledge of the calculus, elementary differential equations, and the elements of coördinate geometry of three dimensions. Hence the first half of the book may be used with seniors, and the remainder will constitute a full-year course for graduate students.

The method generally used is that of Gauss, common among German and Italian writers, but the kinematical method, frequently adopted in France, has been developed and applied where more feasible. This has been done not only because it furnishes the student with a powerful operator, but for the reason, also, that it develops geometrical thinking.

There are several hundred problems, some of which are direct applications of the accompanying sections, but many are theorems which might properly be established in a more extensive treatise. These have been inserted as an incentive to research and as preparation for larger problems.

The Calculus and its Applications. By ROBERT GORDON BLAINE, New York: D. Van Nostrand Company. Pp. 321. $1.50.

This book is compiled mainly from notes and examples prepared by the author for his classes. It is intended as an introduction to existing standard works on the subject. A large number of the problems are worked out for the sake of those students who desire to obtain a working acquaintance with the subject with little aid from a teacher. The examples given seem to be well selected and to cover the field of the various applications of the subject. It should prove a useful book for a first course.

Constructive Drawing. Revised edition. By HERMAN HANSTEIN. Chicago: Keuffel & Esser Company.

This book consists of about 140 problems and covers the work of the first year's course in the Chicago high schools and in the drawing department of the Chicago Mechanics Institute. The author's long experience has enabled him to select problems of practical importance to those who follow architecture, mechanical and engineering vocations, as well as problems which are indispensible to manufacturing and industrial pursuits.